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ATTGCGCACTGAGGAGTTAATACACAGCTGCAAGATATACCGAATACAAGAAC
CTGGGTTTGCCAAAATGATATCAGCTGTCGTGTGGCTCATGGTCCTGCTGATC
ATGGTGCCGAACATGGTGATTCCCATCAAGGACATCAAAGAAAAGTCAAATGT
AGGTTGCATGGAGTTTAAAAAGGAGTTTGGAAGAACTGGCATTGTGCTAACAA
ACTTCATCTGTGTGGCAATATTTTTAAATTTCTCAGTCATCATTTTGATATCC
AACTTCCTTGCAATCAGACAACCTCTATAGAAATAGAGACAACACAAACTATCC
AAGTGTGAAATCAGCTCTGCTCCACATTCTCTTGGTGACAGCTAGTTACATCA
TATGCTTTGTTCCCTACCACGCTGTCAGGATCCCATACACCCTCAGCCAGACA
GAGGTCATATCTGATTGCTCAACTAGGATCGCACTCTTCAAAGCCAAAGAGGC
CACACTGCTGCTGGCGGTGTCTAATTTGTGTTTTGATCCAATCCTGTACTATC
ATCTGTCAAAAGCCTTTCGACTAAAGGTCACCGAGACTTTCGCCTCACCTAAA
AAGAGCAAGCCTCTGGAAGAAAGATTGAGAAGTGAGAATGATGTGTAAAATGC
AGGCTTTGCACGTTAGTCCTTCTTCCTGACTGGACCATAAAGCTGGTCACAGT
TTTC (SEQ ID NO:1)

FIGURE 1

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Construct

Gene: 17 GI Number(s): 1738456
 Gene Family: GPCR 1749042
 Gene Subfamily: Orphan GPCR
 Gene Sequence: EST contig, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

ATTGCGCACTGAGGAG [TTAATACACAGCTGCAAGATATACCGAATACAAGAACCCTGGGT
 TTGCCAAAATGATATCAGCTGTCGTGTGGCTCATGGTCCTGCTGATCATGGTGCCGAACA
 TGGTGA] TTCCCATCAAGGACATCAAAGAAAAGTCAAATGTAGGTTGCATGGAGTTTAAA
AAGGAGTTTGGGAAGAACTGGCATTGCTAAACAACTTCATCTGTGTGGCAATATTTTA
AATTTCTCAGTCATCATTGATATCCAACCTTCCTTGAATCAGACAACCTCTATAGAAAT
AGAGACAACACAAACTATCCAAGTGTGAATCAGCTCTGCTCCACATTCTCTTGGTGACA
GCTAGTTACATCATATGCTTTGTTCCCTACCACGCTGTCAGGATCCCATACACCCTCAGC
CAGACAGAGGTCATATCTGATTGCTCAACTAGGATCGCACTCTTCAAAGCCAAAGAGGCC
ACACTGCTGCTGGCGGTGTCTAATTTGTGTTTGGATCCAATCCTGTACTATCATCTGTCA
AAAGCCTTTGCGACTAAAGGTCACCGAGACTTTGCGCTCACCTAAAAGAGCAAGCCTCTG
CAAGAAAGATTGAGAAGTGAGAATGATGTGTAATAATGCAGGCTTTGCACGTTAGTCCTTC
TTCTCTG [ACTGGACCATAAAGCTGGTCACAGTTTTC]

Gene Sequence 126 bp Sequence Deleted 664 bp
 Structure *

Size of EST contig: 693 bp



FIGURE 2A

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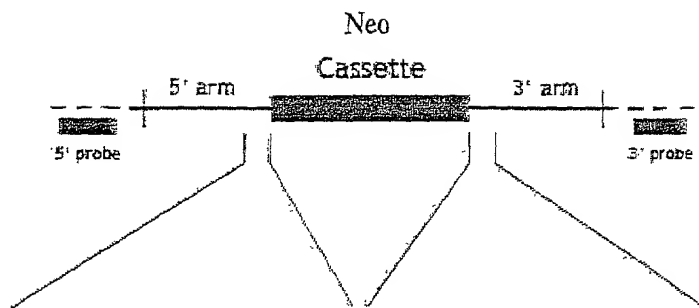
Targeting Vector* (genomic sequence)

Construct Number: 87

Arm Length:

5': 8 kb

3': 1.6 kb



———— Targeting Vector
 - - - - Endogenous Locus

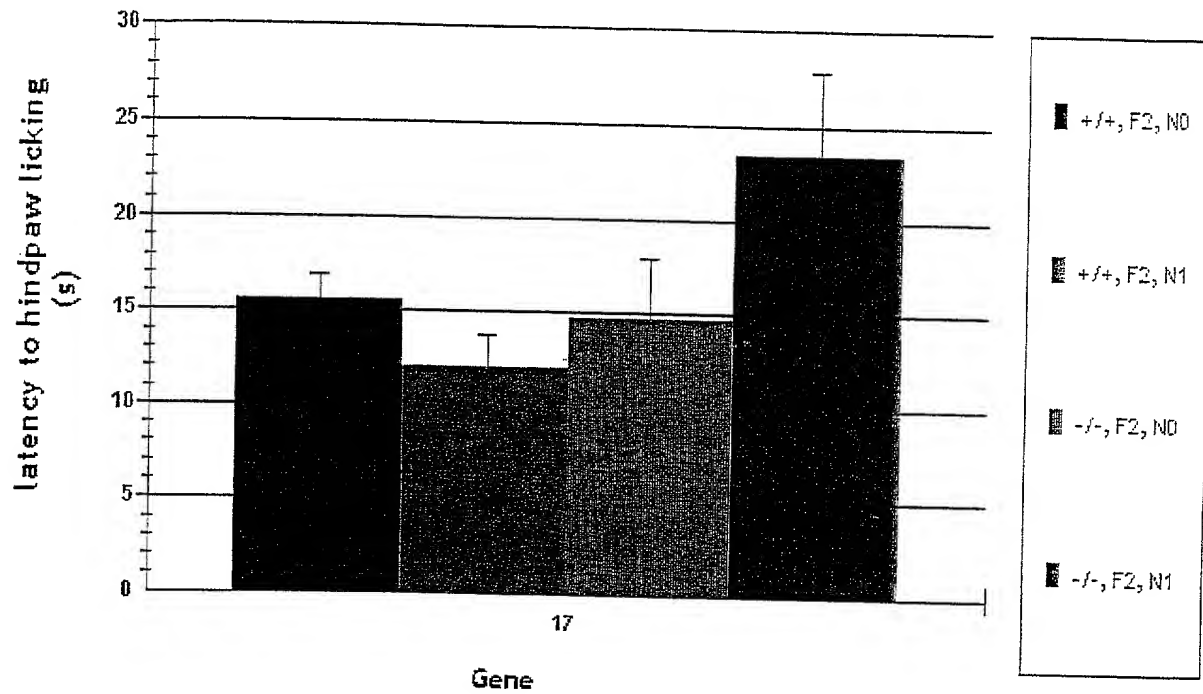
* Not drawn to scale

5' > CCACTGCCAAGTGACAGCCTG	5' > ACTGGACCATAAAGCTGGTCA
CCTCATCTACATCAATATGTACTT	CAGTTTTCAAAAATAAAGAAGAT
ATCTATTATCTTCTTAGCCTTTGT	GCTGACATAGAAGAAGATGCTTAG
CAGCATCGATCGCTGTCTTCAGTT	GAATAAGAGCCACCAATAGCTAGC
AATACACAGCTGCAAGATATACCG	AAACGGGACTGGTTCATGCAGAAA
AATACAAGAACCTGGGTTTGCCAA	GTCCCTTCTTCAATCCAAGCCAAC
AATGATATCAGCTGTCGTGTGGCT	CCTGCACTCTCACAGATGCTGACA
CATGGTCCTGCTGATCATGGTGTC	TTCTTTACCTAACAAAGCACATTG
GAACATGGTGA < 3'	AACCAAGGTCA < 3'
(SEQ ID NO:2)	(SEQ ID NO:3)

FIGURE 2B

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hot plate - latency to hindpaw licking



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FIGURE 3

101200* 14523860

Phenotypic Data Summary - Open Field

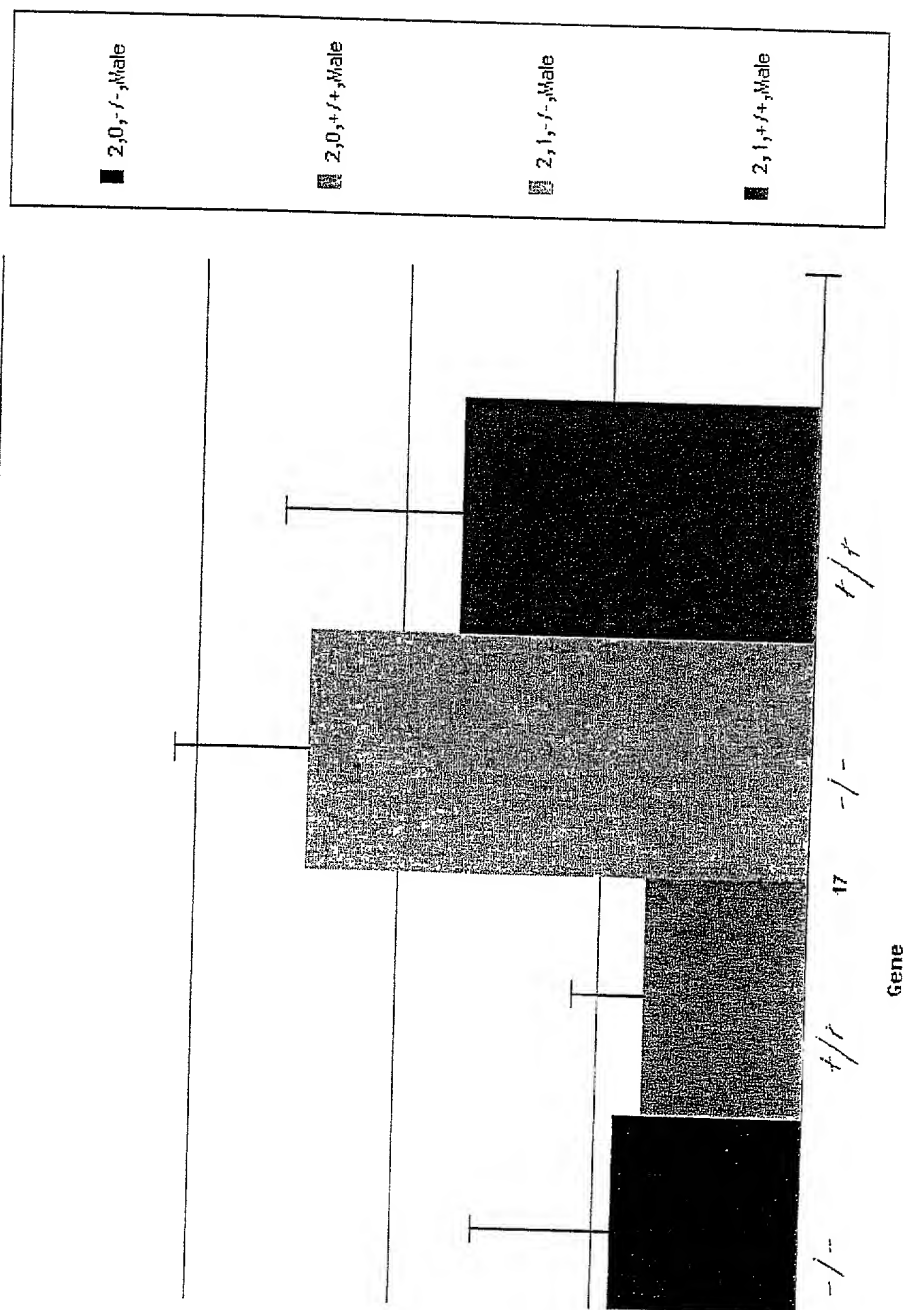


FIGURE 4